

Notice of Allowability

Application No.

10/759,079

Applicant(s)

AHN ET AL.

Examiner

David Nhu

Art Unit

2818

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/25/05.
2. ☒ The allowed claim(s) is/are 45-47, 52, 57-62, 71-77, 84 and 85.
3. ☒ The drawings filed on 20 January 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 10/206,205.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau. (PCT Rule 17.2(a)).

09/835,643

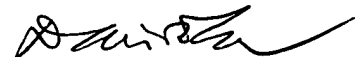
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 01
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



REASONS FOR ALLOWANCE

1. Claims 45-47, 52, 57-62, 71-77, 84-85 are allowed.
2. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 45, 61, 76, 84: a signal conductor line formed over said substrate, wherein said signal conductor line comprises a first conductor layer, said first conductive layer being over and in contact with a barrier layer, said barrier layer being over a first insulating layer on said substrate, and wherein said first insulating layer and said barrier layer are at least partially between said first conductive layer and a top surface of said substrate; at least two longitudinal ground conductor planes formed over said substrate on both sides of said signal conductor line and spaced apart from said signal conductor line to form respective gaps; and at least two trenches formed in said substrate at said respective gaps (as cited in claims 45, 61); a signal conductor line formed over said silicon substrate, wherein said first oxide layer is at least partially between said signal conductor line and a top surface of said substrate; at least two longitudinal ground conductor planes formed over said substrate on both sides of said signal conductor line and spaced apart from said signal conductor line to form respective gaps; and at least two trenches formed in said silicon substrate at said respective gaps, each of said trenches having a depth of about 100, 000 Angstroms to about 200, 000 Angstroms and a width of about 100, 000 Angstroms to about 150, 000 Angstroms; at least two trenches formed in said silicon substrate at said respective gaps, each of said trenches having a radius of about 50, 000 Angstroms to about 100, 000 Angstroms (as cited in claims 76, 84).

Art Unit: 2818

Applicants' undersigned representatives filed an amendment on 1/18/05, and also filed at that time a terminal disclaimer statement with reference to USP: 6,756, 673 B2.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Ahn et al (6,756,673 B2): Low-Loss Coplanar Waveguides and Method of Fabrication.

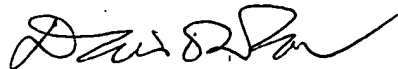
5. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu , (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu



May 12, 2005

DAVID NHU
PRIMARY EX